

In the claims:

Claims 1- 28 (cancelled)

29. **(Previously Presented)** A method of fabricating a microfluidic delivery system for release of molecules having reservoirs containing the molecules for release comprising:
providing a substrate;
 depositing an ultra-nanocrystalline diamond coating on the substrate for use as an impermeable and biocompatible protective coating;
filling the reservoirs with molecules to be release into living tissue; and
capping the reservoirs with a cap material which retains the molecules.
30. **(Previously Presented)** The method of claim 29 wherein said substrate is comprised of silicon.
31. **(Previously Presented)** The method of claim 29 wherein said cap material is selectively permeable to the molecules.
32. **(Previously Presented)** The method of claim 29 wherein said cap material disintegrates to release the molecules.
33. **(Previously Presented)** The method of claim 29 wherein said cap material is comprised of ultra-nanocrystalline diamond.